Page 1 of 6

OIPE

DATE: 11/08/2001 RAW SEQUENCE LISTING TIME: 10:29:52 PATENT APPLICATION: US/09/885,725

Input Set : A:\49949-SEQ.TXT

Output Set: N:\CRF3\11082001\1885725.raw

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4 <110> APPLICANT: Lyngstadaas, Stale Petter
         Gestrelius, Stina
 7 <120> TITLE OF INVENTION: Matrix Protein Compositions for Dentin
         Regeneration
10 <130> FILE REFERENCE: P24775US01
12 <140> CURRENT APPLICATION NUMBER: 09/885,725
13 <141> CURRENT FILING DATE: 2001-06-19
15 <150> PRIOR APPLICATION NUMBER: PA200000959
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16 <151> PRIOR FILING DATE: 2000-06-20
18 <150> PRIOR APPLICATION NUMBER: PA200001665
19 <151> PRIOR FILING DATE: 2000-11-08
21 <160> NUMBER OF SEQ ID NOS: 6
23 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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26 <211> LENGTH: 407
27 <212> TYPE: PRT
28 <213> ORGANISM: rat
30 <400> SEQUENCE: 1
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35 Gln Pro Gly Ala Gln Gly Met Ala Pro Pro Gly Met Ala Ser Leu Ser
                               40
37 Leu Glu Thr Met Arg Gln Leu Gly Ser Leu Gln Gly Leu Asn Ala Leu
39 Ser Gln Tyr Ser Arg Leu Gly Phe Gly Lys Ala Leu Asn Ser Leu Trp
41 Leu His Gly Leu Leu Pro Pro His Asn Ser Phe Pro Trp Ile Gly Pro
43 Arg Glu His Glu Thr Gln Gln Pro Ser Leu Gln Pro His Gln Pro Gly
               100
                                  105
45 Leu Lys Pro Phe Leu Gln Pro Thr Ala Ala Thr Gly Val Gln Val Thr
                              120
47 Pro Gln Lys Pro Gly Pro His Pro Pro Met His Pro Gly Gln Leu Pro
                          135
                                               140
49 Leu Gln Glu Gly Glu Leu Ile Ala Pro Asp Glu Pro Gln Val Ala Pro
                      150
                                           155
51 Ser Glu Asn Pro Pro Thr Pro Glu Val Pro Ile Met Asp Phe Ala Asp
                  165
                                       170
53 Pro Gln Phe Pro Thr Val Phe Gln Ile Ala His Ser Leu Ser Arg Gly
                                   185
55 Pro Met Ala His Asn Lys Val Pro Thr Phe Tyr Pro Gly Met Phe Tyr
                              200
57 Met Ser Tyr Gly Ala Asn Gln Leu Asn Ala Pro Gly Arg Ile Gly Phe
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59 Met Ser Ser Glu Glu Met Pro Gly Glu Arg Gly Ser Pro Met Ala Tyr

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υu	225					230					235					240
		Thr	T.eu				Tur	Glv	Glv	Dhe		Gln	Thr	T.@11	Arg	
62	CLY	1111	БСС	1110	245	OLY ·	- 1 -	OL1	OL,	250		0111	1111	пси	255	OLY
	Leu	Asn	Gln	Asn		Pro	Lvs	Glv	Glv			Thr	Va 1	Glu	Val	Asp
64				260			1	- 1	265					270		
	Ser	Pro	Val		Val	Thr	Lvs	Glv		Glu	Lvs	Glv	Glu		Pro	Glu
66			275				-1-	280			-1-	V-1	285	~- <i>1</i>		
	Gly	Ser		Leu	Gln	Glu	Ala		Pro	Asp	Lys	Gly		Asn	Pro	Ala
68	•	290					295			•	4	300				
69	Leu	Leu	Ser	Gln	Ile	Ala	Pro	Gly	Ala	His	Ala	Gly	Leu	Leu	Ala	Phe
	305					310		-			315	-				320
71	Pro	Asn	Asp	His	Ile	Pro	Asn	Met	Ala	Arg	Gly	Pro	Ala	Gly	Gln	Arg
72			_		325					330					335	_
73	Leu	Leu	Gly	Val	Thr	Pro	Ala	Ala	Ala	Asp	Pro	Leu	Ile	Thr	Pro	Glu
74				340					345					350		
75	Leu	Ala	Glu	Val	Tyr	Glu	Thr	Tyr	Gly	Ala	Asp	Val	Thr	Thr	Pro	Leu
76			355					360					365			
77	Gly	Asp	Gly	Glu	Ala	Thr	Met	Asp	Ile	Thr	Met	Ser	Pro	Asp	Thr	Gln
78		370					375					380				
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	385					390					395					400
	Ala	Trp	Arg	Phe		Glu	Pro									
82	.01				405											
				NO:												
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	<212				~ ~+											
				SM: ICE:												
						Tlo	Dro	Lou	Dho	Tuc	Mot	Two	C1 17	T 011	Leu	LOU
92	1	261	АТа	261	цуз 5	116	PIO	пеп	FIIE	10	Mec	nys	СТУ	ьеu	15	цец
		T.e.11	Ser	T.eu	-	T.v.c	Met	Ser	T.611		Val	Pro	Δla	Dhe	Pro	Gln
94	1 110	БСи	DCI	20	141	цу	1100	JCI	25	niu	Vu.	110	пла	30	110	GIII
	Gln	Pro	Glv		Gln	Glv	Met.	Ala		Pro	Glv	Met	Ala	-	Leu	Ser
96			35		0			40					45	501	Lea	501
	Leu	Glu		Met	Arq	Gln	Leu		Ser	Leu	Gln	Gly		Asn	Ala	Leu
98		50					55	1				60				
~ ~	Ser	Gln	_	_	_		_							a	LON	Trp
99	$\mathcal{L}_{\mathcal{L}}$	OTII	Tyr	ser	Arq	Leu ·	Gly	Phe	Gly	Lys	Ala	Leu	Asn	ser	шeu	
	65	GIII	Tyr	Ser	Arg	Leu 70	Gly	Phe	Gly	Lys	Ala 75	Leu	Asn	ser	цец	80
100	65					70					75					
100) 65 l Lei					70					75					80
100 101 102) 65 l Lei 2	ı His	s Gly	Leu	Leu 85	70 Pro	Pro	His	Asn	Ser 90	75 Phe	Pro	Trp	Ile	e Gly 95	80 Pro
100 101 102	0 65 1 Leu 2 3 Arg	ı His	s Gly	Leu	Leu 85 Thr	70 Pro	Pro	His	Asn	Ser 90 Leu	75 Phe	Pro	Trp	Ile	e Gly 95 Pro	80
100 101 102 103 104	0 65 1 Leu 2 3 Arg 1	ı His g Glu	s Gly ı His	Leu Glu 100	Leu 85 Thr	70 Pro	Pro Gln	His	Asn Ser 105	Ser 90 Leu	75 Phe	Pro	Trp	Ile Glr 110	e Gly 95 n Pro	80 Pro
100 103 103 104 105 106	0 65 1 Let 2 3 Arq 1 5 Let	ı His g Glu ı Lys	s Gly n His s Pro	Leu Glu 100 Phe	Leu 85 Thr	70 Pro Gln	Pro Gln Pro	Pro Thr 120	Ser 105	Ser 90 Leu Ala	75 Phe Gln Thr	Pro Pro	Trp His Val 125	Glr 110 Glr	e Gly 95 Pro	80 Pro Gly Thr
100 102 103 104 105 106 107	0 65 1 Let 2 3 Arg 1 5 Let 6 7 Pro	ı His g Glu ı Lys	s Gly n His s Pro	Leu Glu 100 Phe	Leu 85 Thr	70 Pro Gln	Pro Gln Pro His	Pro Thr 120	Ser 105	Ser 90 Leu Ala	75 Phe Gln Thr	Pro Pro	Trp His Val 125	Glr 110 Glr	e Gly 95 Pro	80 Pro Gly
100 102 103 104 105 106 107) 65 1 Let 2 3 Arc 4 5 Let 5 Pro 3	His Glu Lys O Glr 130	s Gly n His s Pro 115 n Lys	Glu 100 Phe	Leu 85 Thr Leu	70 Pro Gln Gln	Pro Gln Pro His	Pro Thr 120	Asn Ser 105 Ala	Ser 90 Leu Ala	75 Phe Glm Thr	Pro Pro Gly Pro 140	Trp His Val 125 Gly	Glr Glr Glr	e Gly 95 n Pro val	80 Pro Gly Thr
100 102 103 104 105 106 107	0 65 1 Let 2 3 Arc 1 5 Let 6 7 Pro 3	His Glu Lys O Glr 130	s Gly n His s Pro 115 n Lys	Glu 100 Phe	Leu 85 Thr Leu	70 Pro Glm Glm Pro	Pro His 135	Pro Thr 120	Asn Ser 105 Ala	Ser 90 Leu Ala	75 Phe Glm Thr His	Pro Gly Pro 140	Trp His Val 125 Gly	Glr Glr Glr	e Gly 95 n Pro val	80 Pro Gly Thr Pro Pro
100 103 103 104 105 106 107 108	0 65 Let 2 3 Arg 1 5 Let 6 7 Pro 3 9 Let 0 145	His Glu Lys Glr 130	s Gly His Pro 115 Lys Glu	Glu 100 Phe Pro	Leu 85 Thr Leu Gly	70 Pro Glm Glm Pro Leu 150	Pro Gln Pro His 135	Pro Thr 120 Pro	Ser 105 Ala Pro	Ser 90 Leu Ala Met	75 Phe Glm Thr His Glu 155	Pro Gly Pro 140	Trp His Val 125 Gly Gln	Glr 110 Glr Glr Val	e Gly 95 Pro Val Val	80 Pro Gly Thr

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170
112
                    165
113 Pro Gln Phe Pro Thr Val Phe Gln Ile Ala His Ser Leu Ser Arg Gly
115 Pro Met Ala His Asn Lys Val Pro Thr Phe Tyr Pro Gly Met Phe Tyr
           195
                                200
117 Met Ser Tyr Gly Ala Asn Gln Leu Asn Ala Pro Gly Arg Ile Gly Phe
                            215
119 Met Ser Ser Glu Glu Met Pro Gly Glu Arg Gly Ser Pro Met Ala Tyr
                        230
                                             235
121 Gly Thr Leu Phe Pro Gly Tyr Gly Gly Phe Arg Gln Thr Leu Arg Gly
                    245
                                        250
123 Leu Asn Gln Asn Ser Pro Lys Gly Gly Asp Phe Thr Val Glu Val Asp
                260
                                    265
125 Ser Pro Val Ser Val Thr Lys Gly Pro Glu Lys Gly Glu Gly Pro Glu
            275
                                280
127 Gly Ser Pro Leu Gln Glu Ala Ser Pro Asp Lys Gly Glu Asn Pro Ala
129 Leu Leu Ser Gln Ile Ala Pro Gly Ala His Ala Gly Leu Leu Ala Phe
130 305
                        310
                                             315
131 Pro Asn Asp His Ile Pro Asn Met Ala Arg Gly Pro Ala Gly Gln Arg
                    325
133 Leu Leu Gly Val Thr Pro Ala Ala Asp Pro Leu Ile Thr Pro Glu
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                                    345
135 Leu Ala Glu Val Tyr Glu Thr Tyr Gly Ala Asp Val Thr Thr Pro Leu
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                                360
137 Gly Asp Gly Glu Ala Thr Met Asp Ile Thr Met Ser Pro Asp Thr Gln
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RAW SEQUENCE LISTING

DATE: 11/08/2001 TIME: 10:29:52

PATENT APPLICATION: US/09/885,725

3/09/885,725 TIME: 10:2

Input Set : A:\49949-SEQ.TXT

Output Set: N:\CRF3\11082001\1885725.raw

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202 1

VERIFICATION SUMMARY

DATE: 11/08/2001

PATENT APPLICATION: US/09/885,725

TIME: 10:29:53

Input Set : A:\49949-SEQ.TXT
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